

## ABSTRACT OF THE DISCLOSURE

A remote tire monitor system includes a control unit and a plurality of tire monitors mountable on respective wheels of a vehicle to transmit radio signals to the control unit. The tire monitors each include a pair of motion sensors such as shock sensors and a control circuit configured to determine position information for the respective tire monitor based on first and second shock sensor signals from the pair of shock sensors. The shock sensors produce an output voltage proportional to a change in applied force. Therefore, the offset created by centrifugal force in previously used accelerometers is absent, simplifying design of the tire monitors.